JENOCARB 102
DLC-Antireflection Coating for IR on Germanium

**Optical properties**

- Rave \((8,0 – 11,5 \,\mu m)\) < 2,4 % per surface
- Rave \((8,0 – 12,0 \,\mu m)\) < 2,8 % per surface
- Rmin \((8,0 – 12,0 \,\mu m)\) < 0,9 % per surface

Including BBAR backside coating:
- Tave \((8,0 – 11,5 \,\mu m)\) > 92,1 %
- Tmax \((8,0 – 11,5 \,\mu m)\) > 94,4 %

**Applications**

- Very durable antireflection coating
- Preferred to be applied on outside components for use under extreme environmental conditions
- Tested on 1 mm thick coated witness pieces
- For Germanium windows and lenses
- Diameters up to 300 mm
- Spectral range 8,0 to 12,0 µm

**Durability**

- Windscreen Wiper Test: TS 1888 / P5.4.3
- Adhesion: MIL-C-675C / P4.5.12
- Humidity: MIL-C-675C / P4.5.8
- Severe Abrasion: MIL-C-675C / P4.5.10
- Temperature Influence: MIL-M-13508 / P4.4.4
- Salt solubility: MIL-C-675C / P4.5.7
- Salt spray: MIL-C-675C / P4.5.9
- Boiling Test: DIN 58196-2 / P5.2
- Durable in hydrochloric acid (pH=1)

**Substrate material**

Germanium

**Special features**

This coating is very hard and very durable. Other specifications are possible on request.